125mm

APFSDS-T MK 1 Round TANK AMMUNITION

Description

- The MK-1 an advanced 125-mm high-velocity flat- trajectory armor piercing fin-stabilized discarding-sabot tracered round
- This round consists of two parts: the projectile unit and the main (rear) charge
- The projectile unit comprises a projectile fitted into a combustible case, containing part of the propelling charge
- The main charge is similar to that used by any 125-mm kinetic ammunition
- The projectile includes a four-segment type sabot and a sub-projectile
- The design of the sabot contributes to the great accuracy of the round at all combat ranges in the modern battlefield
- The sub-projectile uses the most advanced available technology. Its tungsten-alloy penetrator has unique mechanical properties that, combined with its shape, result in a superior penetration capability

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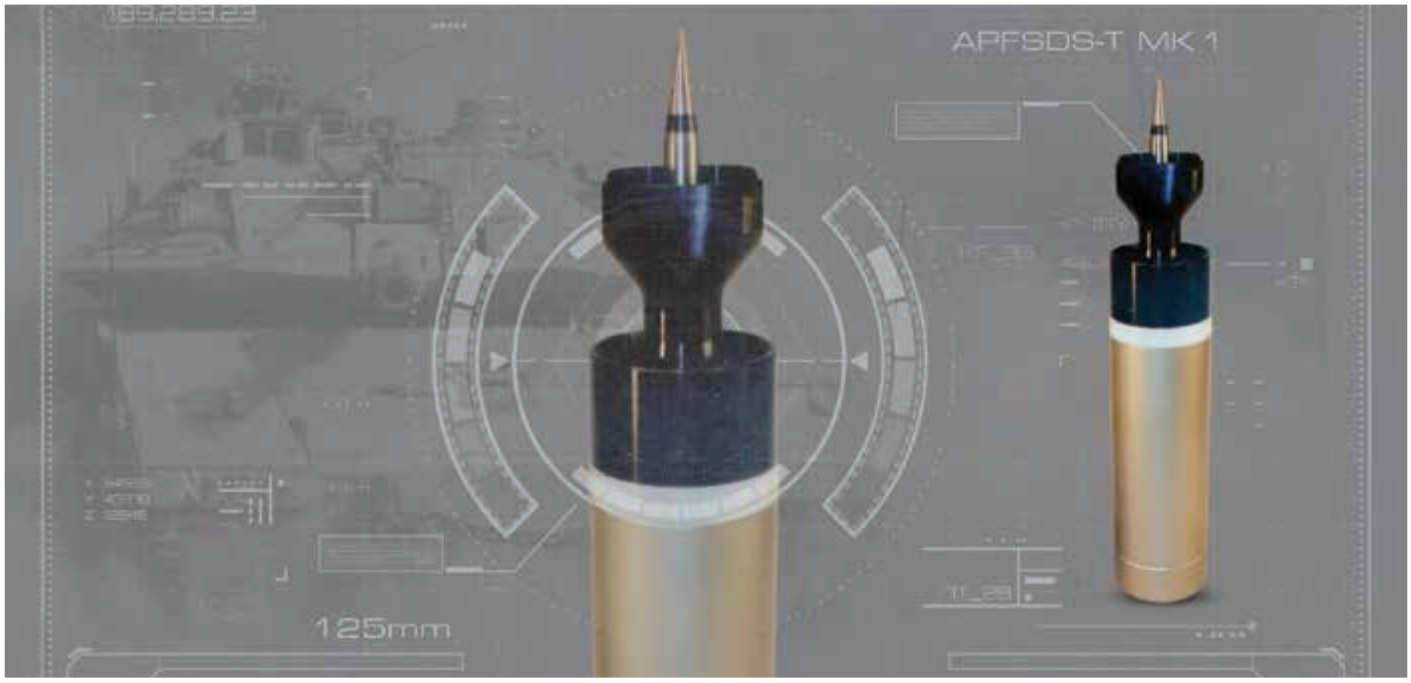

Performance

This round has been tested against various armored targets and has shown superior penetration capability in comparison with other 125-mm KE rounds.

The low velocity drop of the sub-projectile in its flight towards the target, ensures a high penetration performane at all combat ranges.

Characteristics	
Projectile weight	7.89kg
Projectile unit length	Max. 678mm
Penetrator	Tungsten alloy
Sabot	Aluminium
Tail	Steel
Propelling charge weight	8.5kg
Penetrator L/D ratio	Approx. 20

Ballistic Performance	
Muzzle velocity	1660m/s (nominal)
Chamber pressure	570 Mpa (nominal)
Accuracy, typical SD	0.25mil
Temperature Limits	
Firing	-40 to +50°C
Storage	-40 to +70°C
Storage class SCG	1.3C

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